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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,293	07/30/2003	Hiroyuki Ito	SOEI/0057	9715
75	90 11/01/2005		EXAM	INER
Keith M. Tackett			FOURSON III, GEORGE R	
MOSER, PATTERSON & SHERIDAN, L.L.P. Suite 1500			ART UNIT	PAPER NUMBER
3040 Post Oak Blvd.			2823	
Houston, TX 77056 DATE N				5

Please find below and/or attached an Office communication concerning this application or proceeding.

			X				
	Application No.	Applicant(s)					
	10/630,293	ITO ET AL.					
Office Action Summary	Examiner	Art Unit					
	George Fourson	2823					
The MAILING DATE of this communication apperiod for Reply	pears on the cover shee	t with the correspondence add	ress				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.4 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMU 136(a). In no event, however, ma will apply and will expire SIX (6) e, cause the application to becom	JNICATION. By a reply be timely filed MONTHS from the mailing date of this combine ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 24 A	Nugust 2005.						
2a)⊠ This action is FINAL . 2b)☐ This	s action is non-final.						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-13 and 20-26</u> is/are pending in the	application.						
4a) Of the above claim(s) is/are withdra		•					
5) Claim(s) is/are allowed.		•					
6)⊠ Claim(s) <u>1,4-8,10-13 and 20-26</u> is/are rejected.							
7)⊠ Claim(s) <u>2,3 and 9</u> is/are objected to.	7) Claim(s) 2.3 and 9 is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) acc		I to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abo	eyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	ction is required if the drav	ving(s) is objected to. See 37 CFF	R 1.121(d).				
11) The oath or declaration is objected to by the E	xaminer. Note the attac	ched Office Action or form PTC	D-152.				
Priority under 35 U.S.C. § 119							
 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documen 		C. § 119(a)-(d) or (f).					
2. Certified copies of the priority documen		in Application No.					
3. Copies of the certified copies of the prior		• •	Stage				
application from the International Burea	•		· ·				
* See the attached detailed Office action for a list	t of the certified copies	not received.					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ew Summary (PTO-413) No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	5) Notice	of Informal Patent Application (PTO-	152)				
Paper No(s)/Mail Date	6)						

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 13 and 20-26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no description in the specification as originally filed of the range of H₂ ion concentration in the plasma. Note that instant page 16 discloses 78.1% molecular hydrogen ions which appears to be the only value disclosed.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1,4-8 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of AAPA and Sferlazzo et al.

The rejection is maintained as stated in the office action mailed 4.20/05.

Applicant argues that there is no suggestion in Sferlazzo et to employ the apparatus and method of either one of Sferlazzo et al to perform the process of AAPA. However, the ions disclosed by Sferlazzo et al are merely exemplary of typical ions employed in semiconductor processing and therefor the process would be expected to be applicable to the AAPA process. In this regard the reference uses the language "may include" when referring to the ions noted by applicant.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action.

Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Claims 2,3 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Fourson whose telephone number is (571) 272-1860. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith, can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

George Fourson Primary Examiner Art Unit 2823

GFourson October 26, 2005